

CLAIMS

WE CLAIM:

1. In a humidification system including an atomizing nozzle, a water supply
2 and a control selectively supplying pressurized water from the supply to said atomizing nozzle so
that atomized vapor is provided, the improvement comprising:
4 an ozone generator; and
an air compressor operatively connected between the ozone generator and the
6 atomizing nozzle for delivering pressurized ozone to the atomizing nozzle so that the nozzle
delivers ozonated vapor.
2. The improvement of claim 1 further comprising an air inlet filter
2 connected between the ozone generator and the air compressor.
3. The improvement of claim 1 further comprising an air drier connected to
2 an inlet of the ozone generator.
4. The improvement of claim 1 further comprising a muffler connected
2 between the ozone generator and the air compressor.

5. A humidification system for a product holding space comprising:
an air atomizing nozzle positioned proximate the product holding space and
including a water inlet and an air inlet;
a water supply and a control selectively supplying pressurized water from the
supply to said atomizing nozzle water inlet;
an ozone generator; and
an air compressor operatively connected between the ozone generator and the
atomizing nozzle air inlet for delivering pressurized ozone to the atomizing nozzle so that the
nozzle delivers ozonated vapor into the product holding space.

6. The humidification system of claim 5 further comprising an air inlet filter
connected between the ozone generator and the air compressor.

7. The humidification system of claim 5 further comprising an air drier
connected to an inlet of the ozone generator.

8. The humidification system of claim 5 further comprising a muffler
connected between the ozone generator and the air compressor.

9. The humidification system of claim 5 wherein the air atomizing nozzle
2 delivers ozonated air into the product holding space when the pressurized water is not being
supplied.

10. The humidification system of claim 5 wherein the water supply and
2 control comprises a timer for intermittently supplying pressurized water from the supply to said
atomizing nozzle water inlet.

11. A humidification system for a refrigerated display case comprising:
2 a plurality of air atomizing nozzles positioned proximate the display case and each
including a water inlet and an air inlet;
4 a water supply and a control selectively supplying pressurized water from the
supply to said atomizing nozzle water inlets;
6 an ozone generator; and
an air compressor operatively connected between the ozone generator and the
8 atomizing nozzle air inlets for delivering pressurized ozone to the atomizing nozzles so that the
nozzles deliver ozonated vapor into the display case.

12. The humidification system of claim 11 wherein the air atomizing nozzles
2 deliver ozonated air into the product holding space when the pressurized water is not being
supplied.

13. The humidification system of claim 11 wherein the water supply and
2 control comprises a timer for intermittently supplying pressurized water from the supply to said
atomizing nozzle water inlet.

14. The method of providing ozone treated air onto seafood or the like
2 provided in a display case comprising:
positioning an air atomizing nozzle proximate the display case, the nozzle
4 including a water inlet and an air inlet;
intermittently connecting said atomizing nozzle to a source of pressurized water;
6 and
providing an ozone generator connected to the atomizing nozzle air inlet for
8 delivering pressurized ozone treated air to the atomizing nozzle so that the nozzle delivers
ozonated vapor into the display case.

15. The method of claim 14 wherein the air atomizing nozzles deliver
2 ozonated air into the product holding space when the source of pressurized water is not
connected to the atomizing nozzle.

16. The method of claim 14 wherein delivering pressurized ozone treated air
2 to the atomizing nozzle further comprises dispelling ozonated air that has not reacted with
pressurized water into the display case.

17. The method of providing ozone treated air into a refrigerated perishable
2 product storage room comprising:
positioning an air atomizing nozzle or nozzles within the storage room, the nozzle
4 or nozzles including a water inlet and an air inlet;
intermittently connecting each atomizing nozzle to a source of pressurized water;
6 and
providing an ozone generator connected to each atomizing nozzle air inlet for
8 delivering pressurized ozone treated air to each atomizing nozzle so that the nozzle delivers
ozonated vapor into the storage room.